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1. Document ID: US 20020106082 A1

L15: Entry 1 of 3

File: PGPB

Aug 8, 2002

DOCUMENT-IDENTIFIER: US 20020106082 A1

TITLE: Transmitter, signal transmitting method, data distributing system and its method, data receiver, data providing device and its method and data transmitter

Detail Description Paragraph (62):

[0108] In the first concrete configuration shown in FIG. 8, the content owner 1200 has an electronic watermark superimposer 1208 which superimposes the copy control information for controlling the usage of the content which becomes valid in the set top box 1500 on the content data in the form of an electronic watermark.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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- ☐
2. Document ID: US 5091746 A

L15: Entry 2 of 3

File: USPT

Feb 25, 1992

DOCUMENT-IDENTIFIER: US 5091746 A

TITLE: Image forming apparatus in which editing content for masking, trimming, and the like is set in advance by separate setting unit and image formation is performed in accordance with editing content set by setting unit

Detailed Description Text (109):

In this manner, the paper sheet P as the copy of the original at a magnification of 100%, in black, with the designated area trimmed, and with the confidential mark added is printed out.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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- ☐
3. Document ID: JP 2001075870 A

L15: Entry 3 of 3

File: JPAB

Mar 23, 2001

DOCUMENT-IDENTIFIER: JP 2001075870 A

TITLE: METHOD AND SYSTEM FOR TRANSMITTING INFORMATION SIGNAL, AND INFORMATION SIGNAL TRANSMITTING DEVICE AND INFORMATION SIGNAL RECEIVING DEVICE

Abstract Text (2):

SOLUTION: In an STB(set top box) 2, when opposite equipment connected through an equipment information detecting part 44 with an analog output terminal 43 of its own device which receives the supply of an analog video signal from the STB 2 is a non-compliant equipment and duplicate restriction information superimposed on the

analog video signal to be outputted as electronic watermark information indicates 'copy once (duplicable for one generation)', this is rewritten to 'no more copy', and the analog video signal on which the duplicate restriction information indicating 'no more copy' is superimposed is outputted.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw Desc	Image
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Term	Documents
WATERMARK	5250
WATERMARKS	1996
CURRENCY	13240
CURRENCIES	1845
CURRENCYS	1
CONFIDENTIAL	10376
CONFIDENTIALS	2
BLACK	419883
BLACKS	8423
BLANK	208383
BLANKS	58351
(((SUBSTITU\$5 OR REPLACE\$5 OR OVERWRT\$5 OR ADD\$5 OR SUPERIMPOS\$5) NEAR1 (PRINT\$5 OR COPY\$5 OR COPI\$5)) WITH (WATERMARK OR CURRENCY OR CONFIDENTIAL) WITH (BLACK OR BLANK OR BOX)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3

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☐ 1. Document ID: US 5917619 A

Using default format because multiple data bases are involved.

L5: Entry 1 of 39

File: USPT

Jun 29, 1999

US-PAT-NO: 5917619

DOCUMENT-IDENTIFIER: US 5917619 A

TITLE: Image forming apparatus

DATE-ISSUED: June 29, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamagata; Hideaki	Yokohama			JP
Miyazawa; Toshio	Kawasaki			JP

US-CL-CURRENT: 358/501; 358/504, 382/135, 399/366, 705/57

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5825968 A

L5: Entry 2 of 39

File: USPT

Oct 20, 1998

DOCUMENT-IDENTIFIER: US 5825968 A

TITLE: Apparatus for controlling a record operation based on a copy inhibiting signal

Application Filing Date (1):

19961223

Detailed Description Text (12):

In accordance with one aspect of the invention, a signal provided from the antenna 1 or an external video/audio signal is supplied through the selector switch 3 to the audio mute circuit 4 and the image mute circuit 5 which may selectively mute the signal, as directed by the processor 25, if the copy inhibiting signal has been detected. Following the muting operation, the audio mute circuit 4 and the image mute circuit 5 send the muted audio and image signals, respectively, to the recording system 9 for recordation on the recording medium. Similarly, information-carrying data received from a digital television broadcast may be supplied to the recording system 9 via the selector switch 3, the audio mute circuit 4 and the image mute circuit 5, based on the instructions issued by the processor 25. During the detection of the copy inhibiting signal, the audio and image signals are muted and transmitted in this state to the input of the recording system 9. In an analogous manner, a digital signal supplied to the interface 13 by a computer, for example, is furnished to the recording system 9 through a data mute circuit 17, controlled by the processor 25. The data mute circuit 17 mutes the data signal from

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the interface 13 by outputting a predetermined digital sequence corresponding to a "black level", a "white level", a "gray level", a "blue screen", a "red screen", etc., if the copy inhibiting signal is detected. The muted data signal is then recorded by the recording system 9.

Detailed Description Text (13):

The detailed operation of the recording apparatus according to one embodiment of the invention is shown in the flowchart of FIG. 2. Initially, when a desired channel is set via the remote control transmitting unit 18 or the key input circuit 20, the processor 25 generates a control signal to the tuner 2 so that the audio and image signals of the user-selected channel are supplied to the selector switch 3. The operation then proceeds to step S1 of FIG. 2, where the processor 25 determines whether a picture recording command has been received from the user via the remote control transmitting unit 18 or key input circuit 20. If so, the processor 25 determines, in step S2, if the copy inhibiting signal detector 6 has detected a copy inhibiting signal in the image signal.

Detailed Description Text (17):

In particular, if a desired channel is set via the remote control transmitting unit 18 or the key input circuit 20, the processor 25 generates a control signal to the tuner 2 for supplying the audio and image signals of the user-selected channel to the selector switch 3. The operation then continues in step S21 of FIG. 3, where the processor 25 determines whether a picture recording command has been received from the user. If so, a decision is carried out, in step S22, whether the copy inhibiting signal detector 6 has detected a copy inhibiting signal in the image signal, and in such a case the processor 25 transmits a control signal to the audio mute circuit 4 and the image mute circuit 5 to mute the audio and image signals, respectively, in step S23. The muted signal is then supplied to the input of the recording system 9 for recordation on the recording medium.

Detailed Description Text (19):

If in step S25 the recording system 9 is not in the process of recording a picture image, or if the copy inhibiting signal has not been detected in step S26, then the processor 25 directs the audio mute circuit 4 and the image mute circuit 5 to terminate the muting operation of the audio and video signals in step S29. The normal recording operation then follows.

Detailed Description Text (27):

In yet another aspect of the invention, the audio and image signals are muted if the copy inhibit signal is detected during the reserved recording operation. As shown in FIG. 6, the first three steps S51, S52 and S53 are identical to the steps S31, S32 and S33, respectively, of FIG. 4 and their description will be omitted. Thus, continuing with step S54 in FIG. 6, the processor 25 directs the audio mute circuit 4 and the image mute circuit 5 to supply an audio signal and the image signal, which are not muted, to the recording system 9. The processor 25 also sends a control signal to the recording system 9 to start the reserved recording operation.

Detailed Description Text (38):

In yet a further aspect of the invention, the audio and image signals are muted if the copy inhibit signal is detected during the reserved recording operation set according to the program ID. The first three steps S 11, S112 and S113 of FIG. 9 are identical to the steps S91, S92 and S93, respectively, of FIG. 7, and their description will be omitted. Thus, continuing with step S114 in FIG. 9, the processor 25 directs the audio mute circuit 4 and the image mute circuit 5 to supply an audio signal and the image signal, which are not muted, to the recording system 9. The processor 25 also sends a control signal to the recording system 9 to start a reserved recording operation.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☒ 3. Document ID: US 5650863 A

L5: Entry 3 of 39

File: USPT

Jul 22, 1997

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DOCUMENT-IDENTIFIER: US 5650863 A

**** See image for Certificate of Correction ****

TITLE: Image reading and copying using plural illumination sources having different characteristics

Application Filing Date (1):

19950524

Detailed Description Text (81):

The same reference numerals in FIGS. 17A and 17B denote the same parts as in FIGS. 1A and 1B. An inhibition area detection circuit 30401 detects a copy-inhibited area of an original image, and is connected to the main-scanning address counter 419 and a sub-scanning address counter 420. The sub-scanning address counter 420 is reset in a "0" period of a VSYNC signal, and is counted up at the timing of an HSYNC signal, thereby generating 13-bit sub-scanning address data (Y address) Y12 to Y0.

Detailed Description Text (225):

When a specific pattern is read from an original, on which the specific pattern is printed using an ink which emits light of a wavelength different from a specific wavelength upon radiation of light of the specific wavelength, at a timing different from an image formation sequence, a copy-inhibited original can be detected without influencing an actual use state under visible light.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 4. Document ID: US 5647010 A

L5: Entry 4 of 39

File: USPT

Jul 8, 1997

DOCUMENT-IDENTIFIER: US 5647010 A

TITLE: Image forming apparatus with security feature which prevents copying of specific types of documents

Application Filing Date (1):

19940914

Brief Summary Text (14):

Also, in accordance with the present invention, an image processing device for executing various kinds of image processing, including filtering, magnification change and gamma correction, with input image data has a pattern detecting section for determining, pixel data by pixel data, whether or not pixel data constituting the input image data are part of a predetermined inhibition pattern. The pattern detecting section has variable detection accuracy. A document deciding section determines, based on the number of pixel data determined to be part of the predetermined inhibition pattern by the pattern detecting means, whether or not the input image data are representative of an inhibited document inhibited from being copied. The document deciding section has variable decision accuracy. A changing section changes the detection accuracy of the pattern detecting section and the decision accuracy of the document deciding section. The inhibited document comprises a sheet on which the inhibition pattern is printed or copied over the entire area thereof.

CLAIMS:

1. An image processing device for executing various kinds of image processing, including filtering, magnification change and gamma correction, with input image data, said device comprising:

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pattern detecting means for determining, pixel data by pixel data, whether or not pixel data constituting the input image data are part of a predetermine inhibition pattern, said pattern detecting means having variable detection accuracy;

document deciding means for determining, based on a number of pixel data determined to be part of said predetermined inhibition pattern by said pattern detecting means, whether or not the input image data are representative of an inhibited document inhibited from being copied, said document deciding means having variable decision accuracy; and

changing means for changing the detection accuracy of said pattern detecting means and the decision accuracy of said document deciding means;

wherein the inhibited document comprises a sheet on which said inhibition pattern is printed or copied over an entire area thereof,

wherein said changing means comprises timer means and automatically changes the detection accuracy of said pattern detecting means and the decision accuracy of said document deciding means according to a period of time preset for said timer means,

wherein the changing means comprises:

a memory for storing different parameters utilized by the pattern detecting means and the document deciding means,

wherein the image processing device further comprises a controller which loads different parameters from the memory to the pattern detecting means and the document deciding means, depending on the period of time preset for said timer means.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 5617187 A

L5: Entry 5 of 39

File: USPT

Apr 1, 1997

DOCUMENT-IDENTIFIER: US 5617187 A

**** See image for Certificate of Correction ****

TITLE: Image reading apparatus, copying apparatus, image processing apparatus, and image processing method

Application Filing Date (1):
19950822

Detailed Description Text (73):

As processing for discriminating that an original image is a copy-inhibited original, in the above description, the copying operation is stopped, a copy is output with a copy-inhibited region painted in black, a copy is output after a fluorescent mark printed for discriminating a copy-inhibited original is visualized thereon, or the like. In addition, any other methods of stopping a normal copying operation may be adopted. For example, the entire output image, or one or a plurality of portions of an output image may be painted in white, black, or a specific color, or may be output in a specific pattern, a warning tone may be generated or may be supplied via, e.g., a modem, an original image may be inhibited from being removed, the functions of the entire apparatus are stopped, and so on.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☒ 6. Document ID: US 5471281 A

L5: Entry 6 of 39

File: USPT

Nov 28, 1995

DOCUMENT-IDENTIFIER: US 5471281 A

**** See image for Certificate of Correction ****

TITLE: Image reading apparatus and copying apparatus having means for radiating visible and non-visible light, image processing apparatus having means for discriminating a specific original and image processing method therefor

Application Filing Date (1):
19931021

Detailed Description Text (74):

As processing for discriminating that an original image is a copy-inhibited original, in the above description, the copying operation is stopped, a copy is output with a copy-inhibited region painted in black, a copy is output after a fluorescent mark printed for discriminating a copy-inhibited original is visualized thereon, or the like. In addition, any other methods of stopping a normal copying operation may be adopted. For example, the entire output image, or one or a plurality of portions of an output image may be painted in white, black, or a specific color, or may be output in a specific pattern, a warning tone may be generated or may be supplied via, e.g., a modem, an original image may be inhibited from being removed, the functions of the entire apparatus are stopped, and so on.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 7. Document ID: US 5162853 A

L5: Entry 7 of 39

File: USPT

Nov 10, 1992

DOCUMENT-IDENTIFIER: US 5162853 A

TITLE: Multiple color copying apparatus having a copy paper color detecting device

Application Filing Date (1):
19880817

Brief Summary Text (9):

The present invention is directed to solving the abovementioned prior art problems, and therefore, it is an object of the present invention to provide a multiple color image forming apparatus, in which colors of copying paper and a developer are detected to prevent forming of a copied image by the indistinguishable developer irrespective of the color of the copying paper.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 8. Document ID: US 4990956 A

L5: Entry 8 of 39

File: USPT

Feb 5, 1991

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DOCUMENT-IDENTIFIER: US 4990956 A

TITLE: Image forming apparatus

Application Filing Date (1):
19890405

Brief Summary Text (10):

According to an aspect of the present invention, there is provided an image forming apparatus, which comprises image forming means for forming on an image carrier a first copy image corresponding to an image of an original and a second copy image corresponding to an image of a region surrounding the original image; size detecting means for detecting the size of the original; and preventing means for preventing the formation of the second copy image in accordance with the result of detection by the size detecting means.

CLAIMS:

13. The image forming apparatus according to claim 10, wherein said preventing means includes comparator means for comparing the size of the support medium to that of the image formed on the basis of the original detected by the detecting means, and a preventing device for preventing the second copy image from being formed on the image carrier when it is concluded that the image size is smaller than the support medium size.

19. The image forming apparatus according to claim 16, wherein said preventing means includes comparator means for comparing the size of the support medium to that of the image formed on the basis of the size of the original detected by the detecting means, and a preventing device for preventing the second copy image from being formed on the image carrier when it is concluded that the image size is smaller than the support medium size and if the presence of the cover means on the original is detected by the cover detecting means.

25. An image forming apparatus comprising:

image forming means for forming on an image carrier a first copy image corresponding to an image of the original on the carrying means and a second copy image corresponding to an image of a region surrounding the original;

means for detecting the size of the original;

means for preventing the formation of the second copy image in accordance with the result of detection by the size detecting means; and

means for moving the image forming means and size detecting means simultaneously against the original in the same direction two times in every copying cycle so that the size detecting means detects the size of the original while moving for the first time, and the image forming means forms the copy image on the carrier while moving for the second time.

26. An image forming apparatus comprising:

an image carrier movable in one direction;

image forming means for scanning the original in one direction to form a first copy image corresponding to an image of the original and a second copy image corresponding to an image of a region surrounding the original onto the image carrier during the movement of the image carrier;

means for detecting the size of the original; and

means for preventing the formation of the second copy image in accordance with the result

of detection by the size detecting means, while the image forming means scans the original and the image carrier is moved in said direction.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachment	Claims	KWC	Draw Desc	Ima
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☐ 9. Document ID: US 4819025 A

L5: Entry 9 of 39

File: USPT

Apr 4, 1989

DOCUMENT-IDENTIFIER: US 4819025 A

**** See image for Certificate of Correction ****

TITLE: Image forming apparatus

Application Filing Date (1):
19880531

Detailed Description Text (60):

In the above embodiments, if the error in the reader is detected before the reproduced image is actually transferred to the copy sheet, the transfer is inhibited and the same image formation process is repeated. If the error in the reader is detected after the transfer process has been started, the image formation process may be interrupted and the copy sheet may be ejected, and the image formation process may be retried from the beginning.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachment	Claims	KWC	Draw Desc	Ima
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☐ 10. Document ID: US 4748480 A

L5: Entry 10 of 39

File: USPT

May 31, 1988

DOCUMENT-IDENTIFIER: US 4748480 A

TITLE: Controlled authentic document recognition equipment

Application Filing Date (1):
19870612

Brief Summary Text (4):

The problem of illicit photocopying of classified or proprietary documents has become pandemic. It would be highly desirable to be able to inhibit the xerographic or other type reproduction of sensitive documents. To do so requires that the photocopier be equipped with a detection and control system that will inhibit the copier automatically before the image can be captured electrostatically, unless a proper "enable" signal is received. This becomes especially important when the frequent occurrence of government espionage activities is considered in which illicit photocopies have been made of very highly classified documents. Recently, there have been a number of publicly reported cases wherein copies of information regarding battle plans, fleet dispositions, communication frequencies, corporate strategies, merger plans, sales histories/forecasts, new product development reports, etc., have been sold on the open market. The ability to prevent the unauthorized photocopying of selected documents becomes extremely important to both national security and the potential future of many corporate activities and entities.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 11. Document ID: US 4738901 A

L5: Entry 11 of 39

File: USPT

Apr 19, 1988

DOCUMENT-IDENTIFIER: US 4738901 A

TITLE: Method and apparatus for the prevention of unauthorized copying of documents

Application Filing Date (1):
19870327

Brief Summary Text (4):

The problem of illicit photocopying of classified or proprietary documents has become pandemic. It would be highly desirable to be able to inhibit the xerographic or other type reproduction of sensitive documents. To do so requires that the photocopier be equipped with a detection and control system that will inhibit the copier automatically before the image can be captured electrostatically, unless a proper "enable" signal is received. This becomes especially important when the frequent occurrence of government espionage activities is considered in which illicit photocopies have been made of very highly classified documents. Recently, there have been a number of publicly reported cases wherein copies of information regarding battle plans fleet dispositions, communication frequencies, corporate strategies, merger plans, sales histories/forecasts, new product development reports, etc., have been sold on the open market. The ability to prevent the unauthorized photocopying of selected documents becomes extremely important to both national security and the potential future of many corporate activities and entities.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☒ 12. Document ID: US 4678322 A

L5: Entry 12 of 39

File: USPT

Jul 7, 1987

DOCUMENT-IDENTIFIER: US 4678322 A

TITLE: Method and apparatus for the prevention of unauthorized copying of documents

Application Filing Date (1):
19860530

Brief Summary Text (4):

The problem of illicit photocopying of classified or proprietary documents has become pandemic. It would be highly desirable to be able to inhibit the xerographic or other type reproduction of sensitive documents. To do so requires that the photocopier be equipped with a detection and control system that will inhibit the copier automatically before the image can be captured electrostatically, unless a proper "enable" signal is received. This becomes especially important when the frequent occurrence of government espionage activities is considered in which illicit photocopies have been made of very highly classified documents. Recently, there have been a number of publicly reported cases wherein copies of information regarding battle plans, fleet dispositions, communication frequencies, corporate strategies, merger plans, sales histories/forecasts, new product development reports, etc., have been sold on the open market. The ability to

prevent the unauthorized photocopying of selected documents becomes extremely important to both national security and the potential future of many corporate activities and entities.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw Desc	Ima
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☐ 13. Document ID: JP 2000165575 A

L5: Entry 13 of 39

File: JPAB

Jun 16, 2000

DOCUMENT-IDENTIFIER: JP 2000165575 A

TITLE: IMAGE GENERATOR, IMAGE GENERATING METHOD AND STORAGE MEDIUM

Abstract Text (2):

SOLUTION: In the image generator, an image processing circuit 111 processes an image signal from an image sensor 108, and a copy inhibition/permission mark detection circuit 112 detects the presence of additional information (copy inhibition information). When it is found that no additional information is recorded on an original 101 as a result of detection, a CPU 113 transmits a signal denoting copy inhibition to a printer section 115, which inhibits copying.

Application Date (1):

19981120

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw Desc	Ima
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☐ 14. Document ID: JP 2000152000 A

L5: Entry 14 of 39

File: JPAB

May 30, 2000

DOCUMENT-IDENTIFIER: JP 2000152000 A

TITLE: IMAGE READER, READ IMAGE DISCRIMINATION METHOD AND STORAGE MEDIUM

Abstract Text (1):

PROBLEM TO BE SOLVED: To provide an image reader that eliminates mis-discrimination of a black letter detection caused by an overshoot or the like of a scanning system so as to improve the image quality of a copy image by inhibiting detection of a black letter part at a tip area of the image (an area when a scanning system is not stable at a prescribed speed) when reading an image, to provide the read image discrimination method and the storage medium.

Application Date (1):

19981109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw Desc	Ima
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☐ 15. Document ID: JP 411355564 A

L5: Entry 15 of 39

File: JPAB

Dec 24, 1999

DOCUMENT-IDENTIFIER: JP 411355564 A
TITLE: IMAGE READER, ITS METHOD AND STORAGE MEDIUM

Abstract Text (1):

PROBLEM TO BE SOLVED: To prevent reading at a place which is not desired by an original preparing person by adding copy inhibiting information to image data at the time of detecting picture reading inhibiting information in read image data.

Application Date (1):
19980612

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw Desc	Ima
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☐ 16. Document ID: JP 411103383 A

L5: Entry 16 of 39

File: JPAB

Apr 13, 1999

DOCUMENT-IDENTIFIER: JP 411103383 A
TITLE: IMAGE FORMING DEVICE

Abstract Text (2):

SOLUTION: A color CCD sensor 14 of a digital color copying machine generates image data from an image of an original and a pattern recognition section 131 discriminates whether or not image data include image data of a copy inhibit object stored in advance. In the case that the generated image data include no image data of a copy inhibit object, an image is formed based on the image data. In the case that the generated image data are discriminated to include image data of a copy inhibit object, the image forming is disturbed. In the digital color copying machine, the generated image data are stored in a delay memory 140 and transfer of the image data to a print head 31 is delayed and the start of printing of the image is delayed.

Application Date (1):
19970926

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw Desc	Ima
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☐ 17. Document ID: JP 10210303 A

L5: Entry 17 of 39

File: JPAB

Aug 7, 1998

DOCUMENT-IDENTIFIER: JP 10210303 A
TITLE: IMAGE-FORMING SYSTEM

Abstract Text (2):

SOLUTION: A digital copying machine receiving a request for image processing, the machine sends the image requested for processing to a copying machine having an image discrimination function (S82). When the copying machine receiving the discrimination request discriminates it that the image processing is to be applied to a copy-inhibited image, the copying machine stores discrimination history information, including a discrimination result to a memory and returns the discrimination result to the digital copying machine which is the request source machine (S83). The digital copying machine

being the request destination or the digital copying machine being the request source transfers the discrimination history information, in response to a transfer request of the discrimination history information from other digital copying machine, a central image-forming forming management equipment or a host computer of a service center or automatically (S97, S98).

Application Date (1):

19970121

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 18. Document ID: JP 09284492 A

L5: Entry 18 of 39

File: JPAB

Oct 31, 1997

DOCUMENT-IDENTIFIER: JP 09284492 A

TITLE: IMAGE FORMING DEVICE

Abstract Text (2):

SOLUTION: A switch 14 detects the closing angle of an original presser plate 13 for pressing an original mounted on an original platen 11. The light emitting parts of detectors 15 arranged under the original platen 11 illuminate the original and light receiving parts receives reflected light from the original. The size of the original is detected from the light receiving signal of these detectors 15. The size of the detected original is stored in a memory and compared and judged with a prescribed normal size by a comparing/judging part. Whether the size of the original is routine or not is discriminated by this comparing/judging. A state in which the original is separated from a prescribed position and the setting state are detected and judged to prevent missetting and a defectively copied image. In addition, when the original and a transfer paper do not coincide with a specific size or when the image is cut, it is possible to vary paper designation.

Application Date (1):

19960408

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 19. Document ID: JP 08172529 A

L5: Entry 19 of 39

File: JPAB

Jul 2, 1996

DOCUMENT-IDENTIFIER: JP 08172529 A

TITLE: IMAGE PROCESSING UNIT

Abstract Text (1):

PURPOSE: To surely inhibit copying, transfer, storage and input of image information of a copy inhibit document by surely discriminating the copy inhibit document.

Abstract Text (2):

CONSTITUTION: A copy inhibit document formed by using a paper sheet on which a copy inhibit pattern 201 is entirely printed out or copied in advance is surely discriminated by discriminating image information indicates the copy inhibit document based on whether or not a noted picture element is a picture element coincident with the black peak

density of the copy inhibit pattern 201, whether or not a prescribed size of a white level is in existence around the noted picture element part by a prescribed distance, whether or not the noted picture element is a mesh graph or half-screen font area picture element and whether or not the noted picture element is an illegal peak area picture element for each of picture element data forming the image information.

Application Date (1):

19950809

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Ima
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☐ 20. Document ID: JP 07322062 A

L5: Entry 20 of 39

File: JPAB

Dec 8, 1995

DOCUMENT-IDENTIFIER: JP 07322062 A

TITLE: IMAGE-FORMING DEVICE

Abstract Text (1):

PURPOSE: To prevent illegal copy by judging a copy inhibition input image and outputting a copy inhibition document detection signal by means of a copy inhibition judgement board and displaying and giving the alarm of a hardware error on the copy inhibition judgement board at the time of outputting a detection signal except for time when an original is read.

Abstract Text (2):

CONSTITUTION: When image information which is read by a scanner 101 is inputted, the copy inhibition pattern detection part of a copy inhibition judgement board 114 detects a copy inhibition pattern in image information. A copy inhibition document judgement part 111 judges whether a document is a copy inhibition document or not based on the number of the detection patterns, outputs the copy inhibition document detection signal or a non-detection signal and copy inhibition is controlled. When the detection signal is outputted from the board 114 by the scanner 101 except for time when the original is read, a system controller 105 judges the hardware error of the board 114. Then, display and alarming are executed through an operation display part 104, and copy is inhibited. Thus, illegal copy can securely be prevented.

Application Date (1):

19940527

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Ima
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☐ 21. Document ID: JP 07143334 A

L5: Entry 21 of 39

File: JPAB

Jun 2, 1995

DOCUMENT-IDENTIFIER: JP 07143334 A

TITLE: COPY-INHIBITED ORIGINAL DETECTING DEVICE FOR COLOR COPYING MACHINE

Abstract Text (2):

CONSTITUTION: A color copying machine performs plural read scanning to a single sheet of original and produces images of each color synchronously with each read scanning in order to obtain the color images. The copying machine of such a constitution is provided with a

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buffer 27 which stores the images obtained by the read scanning, a deciding means which detects the copy-inhibited originals among those images stored in the buffer 27 based on the prescribed deciding standards of an intra-circular area ON pixel total number detecting circuit 28, an intra-circular area ON/OFF inverted pixel total number detecting circuit 29, etc., and a parameter control circuit 26 which changes the deciding standards according to the reading degree. For instance, the red seals of paper money are detected in the first scanning and the background yellow images of the red seals are detected in the second scanning respectively.

Application Date (1):

19931118

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 22. Document ID: JP 07073326 A

L5: Entry 22 of 39

File: JPAB

Mar 17, 1995

DOCUMENT-IDENTIFIER: JP 07073326 A

TITLE: METHOD FOR DETECTING SPECIFIED IMAGE AND PREVENTING SPECIFIED IMAGE FROM BEING COPIED

Abstract Text (1):

PURPOSE: To accurately and easily detect an arbitrary number of copy-inhibited images such as paper moneys contained in a color image.

Abstract Text (2):

CONSTITUTION: A histogram 103 for the chromaticity of R is prepared by calculating the R chromaticity from the feature amount of an input image such as RGB data, for example, and matching is performed with the respective constant-fold values (0-fold, 1-fold, 2-fold, 3-fold and 4-fold values) of the R chromaticity in a dictionary 104. The multiple of the R chromaticity histogram, of which degree of difference is minimum, (=the number of copy inhibitet images such as paper moneys) and that degree of difference are outputted. When the multiple to be outputted is '0', no copy-inhibited image is contained in the input image. When the copy inhibited image is detected, the RGB data of the input image are worked by an image conversion part 105, and the source image is prevented from being copied.

Application Date (1):

19930906

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 23. Document ID: JP 04252561 A

L5: Entry 23 of 39

File: JPAB

Sep 8, 1992

DOCUMENT-IDENTIFIER: JP 04252561 A

TITLE: IMGE FORMING DEVICE

Abstract Text (1):

PURPOSE: To surely detect the replacement of an original of the image forming device and to prevent making duplicate copy in advance.

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Application Date (1):19910128

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 24. Document ID: JP 58171062 A

L5: Entry 24 of 39

File: JPAB

Oct 7, 1983

DOCUMENT-IDENTIFIER: JP 58171062 A

TITLE: COPYING DEVICE

Abstract Text (1):

PURPOSE: To prevent the deviation in a copied picture image by detecting the position where an original is placed in the direction at a right angle to the scanning direction for exposure, detecting the deviation of the original from the prescribed position in accordance with the result of said detection and moving the position for delivering copying paper according to said deviation.

Application Date (1):19820331

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 25. Document ID: JP 56060438 A

L5: Entry 25 of 39

File: JPAB

May 25, 1981

DOCUMENT-IDENTIFIER: JP 56060438 A

TITLE: LAYOUT RECORDING METHOD IN IMAGE SCANNING RECORDER

Abstract Text (1):

PURPOSE: To prevent deformation of a copied image, by detecting deviation of the positions of each pickup head and a recording head in advance, and controlling feed speed of each pickup head in accordance with said deviation and magnification of image duplication.

Application Date (1):19791023

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 26. Document ID: JP 11032293 A

L5: Entry 26 of 39

File: DWPI

Feb 2, 1999

DERWENT-ACC-NO: 1999-178056

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DERWENT-WEEK: 199915

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TITLE: Copy prevention controller for digital image processor - detects existence of copy protection information in received image information, based on which recording of data in recording medium is regulated

PF Application Date (1):

19970709

Standard Title Terms (1):

COPY PREVENT CONTROL DIGITAL IMAGE PROCESSOR DETECT EXIST COPY PROTECT INFORMATION
RECEIVE IMAGE INFORMATION BASED RECORD DATA RECORD MEDIUM REGULATE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 27. Document ID: JP 09163069 A

L5: Entry 27 of 39

File: DWPI

Jun 20, 1997

DERWENT-ACC-NO: 1997-379331

DERWENT-WEEK: 199735

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TITLE: Digital copier avoiding need for make-up operation processing - has manuscript detector, image reading device, and prevents conveyer operation, when copy size data and face width data of document larger than available free memory space

PF Application Date (1):

19951213

Standard Title Terms (1):

DIGITAL COPY AVOID NEED UP OPERATE PROCESS MANUSCRIPT DETECT IMAGE READ DEVICE PREVENT
OPERATE COPY SIZE DATA FACE WIDTH DATA DOCUMENT LARGER AVAILABLE FREE MEMORY SPACE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 28. Document ID: US 5640467 A, JP 3170144 B2, JP 07322062 A

L5: Entry 28 of 39

File: DWPI

Jun 17, 1997

DERWENT-ACC-NO: 1997-332307

DERWENT-WEEK: 200132

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TITLE: Image forming apparatus with copying-inhibited function for use in e.g. photocopiers - includes copying inhibition discrimination board which has copying-inhibited pattern detector and copying inhibited document discriminator

Basic Abstract Text (1):

The image forming apparatus includes a copy-inhibiting pattern detector for detecting, for each pixel data constituting an image, whether the pixel data us a portion of a predetermined copying-inhibited pattern. A copying-inhibited document discriminator determines whether the image data is a coping inhibited one according to a number off pixel data recognised as a potion of a copying inhibited document detected signal or a copying-inhibited not-detected signal. the copying-inhibited pattern detector and the

copying-inhibited document discriminator are incorporated on an copying inhibition discrimination board.

PF Application Date (1):
19950328

PF Application Date (2):
19940527

PF Application Date (4):
19940527

Standard Title Terms (1):
IMAGE FORMING APPARATUS COPY INHIBIT FUNCTION PHOTOCOPY COPY INHIBIT DISCRIMINATE BOARD
COPY INHIBIT PATTERN DETECT COPY INHIBIT DOCUMENT DISCRIMINATE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 29. Document ID: JP 09121266 A

L5: Entry 29 of 39

File: DWPI

May 6, 1997

DERWENT-ACC-NO: 1997-308558
DERWENT-WEEK: 199728
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TITLE: Media board with copier - prevents copy operation when presence of image on movable sheet is not detected according to output of CCD

Basic Abstract Text (2):
When the presence of an image is not detected, a copy operation is prevented.

PF Application Date (1):
19870917

PF Application Date (2):
19870917

Standard Title Terms (1):
MEDIUM BOARD COPY PREVENT COPY OPERATE PRESENCE IMAGE MOVE SHEET DETECT ACCORD OUTPUT CCD

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 30. Document ID: JP 07273975 A, JP 3164963 B2

L5: Entry 30 of 39

File: DWPI

Oct 20, 1995

DERWENT-ACC-NO: 1995-398752
DERWENT-WEEK: 200129
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TITLE: Digital copying machine with copy protection facility - has pattern detector which determines existence of forbidden-copying image pattern on image data which is read by scanner, while image processor inhibits copying of image data when such pattern is detected

PF Application Date (1):

19940331

PF Application Date (2):

19940331

Standard Title Terms (1):

DIGITAL COPY MACHINE COPY PROTECT FACILITY PATTERN DETECT DETERMINE EXIST FORBID COPY
IMAGE PATTERN IMAGE DATA READ SCAN IMAGE PROCESSOR INHIBIT COPY IMAGE DATA PATTERN DETECT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 31. Document ID: JP 07073326 A

L5: Entry 31 of 39

File: DWPI

Mar 17, 1995

DERWENT-ACC-NO: 1995-149987

DERWENT-WEEK: 199520

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TITLE: Copy prevention image discriminator for colour scanner e.g. of copier - computes red chromaticity of input image so as to create histogram for comparison with set pattern, e.g. of bank note, to determine degree of match and prevents copying depending on match NoAbstract

PF Application Date (1):

19930906

Standard Title Terms (1):

COPY PREVENT IMAGE DISCRIMINATE COLOUR SCAN COPY COMPUTATION RED CHROMATIC INPUT IMAGE SO
HISTOGRAM COMPARE SET PATTERN BANK NOTE DETERMINE DEGREE MATCH PREVENT COPY DEPEND MATCH
NOABSTRACT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 32. Document ID: DE 4432741 A1, JP 3078447 B2, JP 07087309 A, JP 07273984 A, DE 4432741 C2, US 5647010 A, JP 3078433 B2

L5: Entry 32 of 39

File: DWPI

Mar 16, 1995

DERWENT-ACC-NO: 1995-116692

DERWENT-WEEK: 200043

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TITLE: Image processing system for document information - identifies symbol marked on paper signifying confidential information not to be copied, transmitted, stored or entered

PF Application Date (1):

19940914

PF Application Date (2):

19940330

PF Application Date (4):
19930914

PF Application Date (5):
19940330

PF Application Date (6):
19940914

PF Application Date (7):
19940914

PF Application Date (8):
19930914

Equivalent Abstract Text (3):

document deciding means for determining, based on a number of pixel data determined to be part of said predetermined inhibition pattern by said pattern detecting means, whether or not the input image data are representative of an inhibited document inhibited from being copied, said document deciding means having variable decision accuracy; and

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 33. Document ID: JP 07038747 A

L5: Entry 33 of 39

File: DWPI

Feb 7, 1995

DERWENT-ACC-NO: 1995-112818

DERWENT-WEEK: 199515

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TITLE: Copying machine with copy prevention feature - discriminates image of original by analysing features of different parts of image

PF Application Date (1):
19930719

Standard Title Terms (1):

COPY MACHINE COPY PREVENT FEATURE DISCRIMINATE IMAGE ORIGINAL ANALYSE FEATURE PART IMAGE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 34. Document ID: US 6621922 B2, EP 637165 A1, JP 07046358 A, JP 07212580 A, EP 637165 B1, ES 2152967 T3, DE 69426509 E, US 20020097420 A1, JP 3320186 B2, JP 3352162 B2

L5: Entry 34 of 39

File: DWPI

Sep 16, 2003

DERWENT-ACC-NO: 1995-062661

DERWENT-WEEK: 200362

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TITLE: Image processing system e.g. for copier, colour printer etc. with counterfeiting prevention - detects if printer has function for adding identification data to printed matter, when transferring image data from electronic appts.

PF Application Date (1):

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19940727PF Application Date (2):
19940729PF Application Date (3):
19930730PF Application Date (4):
19940118PF Application Date (5):
19940729PF Application Date (6):
19940729PF Application Date (8):
19940729PF Application Date (9):
19940729PF Application Date (11):
19940727PF Application Date (12):
19940118PF Application Date (14):
19930730

Standard Title Terms (1):
IMAGE PROCESS SYSTEM COPY COLOUR PRINT PREVENT DETECT PRINT FUNCTION ADD IDENTIFY DATA
PRINT MATTER TRANSFER IMAGE DATA ELECTRONIC APPARATUS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 35. Document ID: JP 06164913 A

L5: Entry 35 of 39

File: DWPI

Jun 10, 1994

DERWENT-ACC-NO: 1994-229576
DERWENT-WEEK: 200240
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TITLE: Picture processor for detection of specific pictorial image to prevent copying -
judges similarity between input pictorial image and stored original

PF Application Date (1):
19921116

Standard Title Terms (1):
PICTURE PROCESSOR DETECT SPECIFIC PICTURE IMAGE PREVENT COPY JUDGEMENT SIMILAR INPUT
PICTURE IMAGE STORAGE ORIGINAL

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 36. Document ID: JP 06054185 A

L5: Entry 36 of 39

File: DWPI

Feb 25, 1994

DERWENT-ACC-NO: 1994-105624

DERWENT-WEEK: 199413

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TITLE: Copier with counterfeit preventive function - has system controller to stop copying when sensor detects dismantlement of counterfeit prevention device from image processing unit NoAbstract

PF Application Date (1):19920803Standard Title Terms (1):

COPY COUNTERFEIT PREVENT FUNCTION SYSTEM CONTROL STOP COPY SENSE DETECT PREVENT DEVICE
IMAGE PROCESS UNIT NOABSTRACT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw Desc	Ima
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☐ 37. Document ID: EP 522769 A1, CA 2072492 C, JP 05014683 A, CA 2072492 A, US 5363454 A, EP 522769 B1, DE 69226993 E

L5: Entry 37 of 39

File: DWPI

Jan 13, 1993

DERWENT-ACC-NO: 1993-010589

DERWENT-WEEK: 199917

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TITLE: Security system for colour photocopiers - compares item being copied with set images and inhibits copying if match occurs

Basic Abstract Text (2):

An original (1501) includes an image (1503) to prevent copying. The copier starts producing a copy (1502) and when enough of the preventive image is detected (1504) the copying process is halted.

PF Application Date (1):19920630PF Application Date (2):19920626PF Application Date (3):19910701PF Application Date (4):19920626PF Application Date (5):19920626PF Application Date (6):19920630PF Application Date (7):19920630

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PF Application Date (8):

19920630

Equivalent Abstract Text (2):

An original (1501) includes an image (1503) to prevent copying. The copier starts producing a copy (1502) and when enough of the preventive image is detected (1504) the copying process is halted.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 38. Document ID: JP 04367082 A

L5: Entry 38 of 39

File: DWPI

Dec 18, 1992

DERWENT-ACC-NO: 1993-041041

DERWENT-WEEK: 199305

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TITLE: Image processing appts. preventing copy-right - adds discrimination information which is not visually discriminatable on manuscript, by using changing reflection rate or infrared beam NoAbstract

PF Application Date (1):

19910614

Standard Title Terms (1):

IMAGE PROCESS APPARATUS PREVENT COPY RIGHT ADD DISCRIMINATE INFORMATION VISUAL MANUSCRIPT CHANGE REFLECT RATE INFRARED BEAM NOABSTRACT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Ima
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☐ 39. Document ID: JP 3315654 B2, EP 506469 A2, JP 04302271 A, CA 2064353 A, JP 05014705 A, JP 05022591 A, JP 05091316 A, JP 05244392 A, EP 506469 A3, US 5363202 A, US 5481377 A, JP 09186868 A, JP 09186869 A, JP 09186870 A, EP 506469 B1, DE 69222215 E, SG 43209 A1, JP 11164135 A, JP 11164136 A, CA 2279589 A1, CA 2279591 A1, CA 2064353 C, JP 3032722 B2, JP 3032723 B2, SG 71841 A1, SG 71842 A1, JP 2001053967 A, JP 3154422 B2, JP 3184563 B2, JP 3184564 B2, JP 3224524 B2, CA 2279589 C, US 6381030 B1, US 6388767 B1, CA 2279591 C, JP 3302039 B2

L5: Entry 39 of 39

File: DWPI

Aug 19, 2002

DERWENT-ACC-NO: 1992-325738

DERWENT-WEEK: 200261

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TITLE: Copying machine detecting copying of specific original - has control circuit responding according to detected connection state between image processing and copying prevention circuits

PF Application Date (1):

19910930

PF Application Date (2):

19910930

PF Application Date (4):
19920327

PF Application Date (5):
19910329

PF Application Date (6):
19920327

PF Application Date (7):
19910701

PF Application Date (8):
19910701

PF Application Date (9):
19910930

PF Application Date (10):
19920228

PF Application Date (11):
19920327

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PF Application Date (32):

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PF Application Date (33):

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PF Application Date (67):
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PF Application Date (70):
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PF Application Date (71):
19920327

PF Application Date (72):
19920228

Standard Title Terms (1):

COPY MACHINE DETECT COPY SPECIFIC ORIGINAL CONTROL CIRCUIT RESPOND ACCORD DETECT CONNECT
STATE IMAGE PROCESS COPY PREVENT CIRCUIT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Ima
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Term	Documents
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(L4 AND L1).PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	39

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